

1	AUTOMATIC CONTROL	38	.Structure
2	.Nonthermal automatic initiator	39	..Extensible
3	..Force initiated	40	WITH FILLER AND FILLER TYPE
4	...Weight	41	.For roll type
5	..Weather and/or light initiated	42	..Between outriggered roll type
6	.Nonfusible thermal initiator	43	.Between parallel plane, relatively slidable panels
7	.With starting or driving means	44	WITH LIQUID SUPPLYING AND/OR DRAINING MEANS
8	.With retarding means	45	WITH OUTRIGGERS (I.E., AWNINGS)
9	.With releasing means for operator and/or counterbalance	46	.Floor or ground engaging outrigger
10	WITH SIGNAL, INDICATOR, OR SIGN	47	.With groove engaging mounting means
11	WITH WIPER OR CLEANER	48	.With rigid closure
12	WITH INSECT EXITS	49	..Movable rigid closure related
13	.Applied to slidably interconnected frames or panels	50	.With nonoutriggered flexible panel
14	.Zigzag or crimped surface	51	..Convertible
15	.Spaced or overlapping sections	52	..With nonoutriggered roll type
16	.Conical, prismatic or other protuberances	53	.Umbrella type
17	.Bar, grooved or apertured	54	.Plural outriggered type
19	WITH HOOD, CANOPY, SHIELD STORAGE CHAMBER, OR OUTRIGGERED RIGID PANEL	55	..One roll type
20	.Outriggered rigid panel, with flexible panel sides	56	.Nonplanar fabric arrangements
21	.Changeable size	57	..Planar surface, with sides
22	.For outriggered flexible panels (i.e., awnings)	58.1	...Sides foldable, rollable, or collapsible
23.1	.For roll type	59	.Multi-positional
24	..Portable	60	.Convertible
25	..With plural flexible or portable panels	61	.Plural strip, slat, or panel type
26	..Casement housed roll	62	..Telescopic and/or collapsible
27	...Fabric free edge connected to movable closure	63	.With fabric having diverse areas
28	..Fabric free edge connected to movable closure	64	.Adjustable size
29	..Movable hood, canopy, shield, storage chamber, or outriggered rigid panel	65	.With braced outrigger
30	...Mounted upon movable closure	66	.Roll type
31	..Combined with frame or demountable side guides	67	..Shiftable position roll
32	.For plural strip, slat, or panel and/or pleating type	68	..Fabric free edge connected operator
33	..Casement housed	69	..Multi-part outrigger
34	..Venetian blind and/or collapsing	70	...Two part, intermediate pivot
35	..Pleating or edge hinged gathering type	71	...Telescopic
36	..Edge hinged, slidably mounted	72	..Swinging outriggers
37	.Slidable into storage chamber	73	...With pivotal motion preventing means
		74	...Sliding pivot
		75	..Sliding outriggers
		76	.With fabric frame
		77	..Pivoted
		78	.Multi-part outrigger
		79	..Two part, intermediate pivot
		80	..Telescopic
		81	.Swinging
		82	..With sliding pivot

83.1	.Rigid or nonmovable	106	...Removably mounted over fabric in frame
84.01	PLEATING TYPE		
84.02	.With power operating means	107	...Plural strip, slat, or panel type
84.03	.Multiple section unit		
84.04	.With preformed pleats	108	..Roll and hanging or drape type only
84.05	..Honeycomb type		
84.06	.With slide guides	109	...Shiftable position
84.07	.Fan type (e.g., for arched windows)	110	....With extensible pole, roller, bar, or support therefor
84.08	.Plural panel type	111	....Vertically slidable
84.09	.Lazy-tong links pivot about axes transverse to panel	112	...With extensible pole, roller, bar, or support therefor
84.11	.Lazy-tong links pivot about axes parallel to panel	113	.Plural strip, slat, or panel assemblies
85	PLURAL RUN TYPE	114	..Nonplanar
86	.Endless	115	..Multiple section unit
87	PLURAL AND/OR WITH RIGID CLOSURE	116	...One closing passage through another
88	.Nonplanar, nonparallel arrangement	117	..Mounted on opposite sides of single opening
89	.Diverse types		
90	..With rigid closure	118	...Track guided
91	...Diverse rigid closures	119	..Mounted on opposite sides of single support
92	...Swinging rigid closures		
93	....Intermediate axis	120	.Roll type
94	....With opposite, parallel, offset flexible panels	121.1	..Single roll
95	....Flexible or portable panel related to rigid closure operating or fastening means	122	..Differently directed fabrics
96	....Facing flexible or portable panel and mounted for optional or conjoint movement	123	.Hanging or draped type
97	....Flexible or portable panel complementary to form complete closure	124	..Side-by-side arranged, on single pole or track
98	...Roll type flexible panel	125	..Shiftable pole
99	....Connected to slidable rigid closure	126	..Laterally overlapping fabrics and/or co-elevational parallel tracks
100	....Fabric free edge connected closure	127	COMBINED
101	...Flexible panel between slidable parallel plane rigid closures	128	CONVERTIBLE
102	...Flexible panel connected to and moved by slidable rigid closure	129	.Plural movably interconnected strip, slat, or panel type
103	...Flexible or portable panel related to rigid closure operating or fastening means	130	PLURAL STRIP, SLAT, OR PANEL TYPE
104	...Grille or shutter type	131	.Longitudinally crooked strip, slat, or panel
105	...Flexible panel removably mounted in slidable rigid closure guides	132	..Bow or U-shape, pivoted together at ends
		133	.Roll type
		134	.Fan type
		135	.Portable
		136	.Parallelogram type
		137	..Plural differently movable parallelogram section with a common side
		138	..With operator
		139	...Unit collapsing only
		140	....Diverse types of operators
		141	.....One operator a spring

142	.....One operator a weight	176.1 P ....Power operating means
143	.....Weighted parallelogram element extension	176.1 V ....Vertical type
144	....Spring	177 R ...Units and subcombinations thereof
145	.....In brace	177 V ....Vertical type
146	....Weight	178.1 R ..Subcombinations or structure thereof
147	.....Strand carried	178.1 V ...Vertical type
148	.....Weighted parallelogram element extension	178.2 ...Cord lock
149	....With gearing	178.3 ...Slat support (e.g., tape ladder)
150	....With strand and pulley	179 ..Plural fabrics in a single frame
151	....Unit carried operator	180 ..One closing opening in another
152	..With means to hold unit in partially collapsed or collapsed position	181 ..With mounting or supporting means
153	...Combined tension and compression means	182 ..Removable frame-type support
154	...Pivoted compression bar	183 ..Nonplanar nonparallel arrangement on support
155	....Friction catch	184 ..Strip, slat, or panel not interconnected for relative motion
156	...Tension members	185 ..Strip, slat, or panel interconnected for diverse relative motions
157	....Flexible member foreshortened at end	186 ..Arranged to provide plural passageways on opening
158	....Friction catch	187 ...Strip, slat, or panel pivotally interconnected
159	..Unit collapsing on guides	188 ..With operating means
160	..Unit pivoted to support	189 ...Counterbalance and additional operator
161	..Unit structures	190 ...Counterbalance only
162	...With additional set of plural strips, slats or panels	191 ....Spring
163	....Plural diverse additional sets	192 ...Spring
164	....Additional set composed of interconnected strips, slats or panels	193 ...Strand
165	....Pivots parallel to unit plane	194 ..Movably mounted track
166.1	..Venetian blind type	195 ...Pivotally mounted
167 R	..Changeable position assemblies	196.1 ..Unit hung from horizontal track
167 V	...Vertical type	197 ...Strips, slats, or panels slidably interconnected
168.1 R	..With accumulating means	198 ...Track parallel to axis of interconnection pivots
168.1 P	...Power operating means	199 ...Strip, slat, or panel constrained for pivotal folding
168.1 V	...Vertical type	200 ...With independently movable strip, slat, or panel
169	...Accumulated at stationary end	201 ..Track guided
170	...Drum or roller wound strand	202 ...Strips, slats, or panels slidably interconnected
171	....Axially traversed drum or roller	203 ...Unit pivoted to support, pivot displaced from unit plane
172 R	...With side guides	204 ...Track parallel to interconnection pivot axis
172 V	....Vertical type	
173 R	...Units and subcombinations thereof	
173 V	....Vertical type	
174 R	..Adjustable strip, slat, or panel angle	
174 V	...Vertical type	
175	...With latch or detent	
176.1 R	...With angle adjusting means	

205	...With independently movably strip, slat, or panel	236	.Strip or slat structure
206	...Strip, slat, or panel constrained for pivotal folding	237	WITH FABRIC HAVING DIVERSE AREAS
207	...Vertical track	238	ROLL TYPE
208	...A single strip, slat, or panel connected to track	239	.Framed
209	...With means to force against mount or support	240	..Adjustable size frame
210	..Pivotally mounted unit	241	.Plural roll
211	...Strips, slats, or panels slidably interconnected	242	.Shiftable position roll
212	...Support pivot at angle to interconnection pivot axis	243	..Roll translated for winding or unwinding operation only
213	...Constrained for pivotal folding	244	...Fabric free edge adjustable
214	..Slidably mounted unit	245	...Spring roller
215	..Removable unit	246	..Straight line non-axial translation in fabric plane only
216	...Strip, slat, or panel slidably interconnected	247	...Center operated, roll support
217	...Pivotal interconnection necessary to removal and insertion	248	...Rack and pinion operated
218	..Movably interconnected	249	...One side, nonstrand operated
219	..Unit having diverse areas	250	...Extensible roller and/or roll support
220	..Interconnected for plural relative motions	251	...Step-by-step
221	...Doubly extensible by sliding only	252	...Strand shifted
222	..Slidably interconnected	253	....Pulley or drum lift on roller
223	...Plural individually interconnected strips, slats, or panels	254	....Winding drum
224	...With operator and/or anti-friction means	255	.....With roll guide
225	...With relative slidable motion preventing means	256	....Roll intermediate guides for translating strands
226	...Embracing type	257	....With position holding means
227	....Integral embracing means	258	.....Strand holder
228	...Tongue, bead, bolt, or dog into groove or slot	259	.....Roll guided
229.1	..Edge-to-edge interconnected	260	....Roll guided
230	...Single covering fabric	261	...With elevator rod
231.1	...Interconnected by strand, fabric, rubber, or plastic	262	.Crooked roll, noncylindrical flexible roller
231.2	....Interconnected by rubber or plastic	263	.Adjustable dimension roll
232	...Hollow, filled, or covered elements	264	.With fabric reinforcements
233	...With relative pivotal motion preventing means	265	.With fabric free edge connected operator
234	....Acting to keep unit planar only	266	.With guides or fabric edge holders
235	...By curled or bent side edges	267.1	..Fabric side edge and stick
		268.1	..Fabric side edge
		269	...Clamping
		270	...Slot or channel type
		271	....Fabric receiving
		272	.....Guide mounted in a channel
		273.1	.....With interlock between fabric and guide
		274	..Stick guided only
		275	...With positive stop or detent
		276	....Reciprocable detent
		277	...Guides of bar or strand form
		278	....With release mechanism
		279	....Guide strand axially through or into stick

280	...Leading edge holders movable axially of stick	323.1	.With supporting or journaling means or with roller end structure
281	....With release mechanism		
282	.....With guide engaging rollers and friction elements	324	..With pintle clamping or holding means
283	.....And roll brake	325	..With pintle journaled in rolled
284	.....With guide engaging rollers	326	..With roller gudgeons
285	....With guide engaging rollers and friction elements	327	NONFRAMED PLURAL EDGED HELD FABRIC
286	.....And roll brake	328	.With fabric stretching means
287	....With guide engaging rollers	329	..Resilient stretching means
288	....With axially acting friction elements	330	HANGING OR DRAPE TYPE
289	...With friction elements	331	.Motor operating means or electric or fluid pressure control
290.1	.With fabric leading edge fastening means	332	.Chain, cable, and/or strand type
291	.With brake or stop	333	.Shiftable position pole
292	..Plural	334	..Plural motions
293.1	..Limit of travel	335	..Swingable
294	...For spring operated roller	336	...Vertical swing
295	....Screw operated brake or stop	337	...With pole operating means
296	..Speed limiting	338	..Vertically shiftable
297	..Ball or roller, form brake or stop	339	...With strand operator
298	..Friction	340	.With fabric operating means
299	...For spring operated roller	341	..Laterally gathered fabric
300	..Pawl or detent	342	...Lazy tongs
301	...For spring operated roller	343	...Spring or screw
302	....Spring urged pawl or detent	344	...Strand
303	....Pawl or detent mounted off the roller	345	....Hollow or slotted track
304.1	....Sliding pawl or detent	346	.....With anti-friction means
305	..For spring operated roller	347	....With anti-friction means
306	...With means to prevent uncoiling of spring on removal from support	348	.With pleating means
307	..For strand operated roll	349.1	.With bottom or intermediate holding, weighting, or draping means
308	...Strand operated brake or stop	349.2	..Intermediate holding means
309	.With rotating means	350	.Portable
310	..Electric operation or control	351	PORTABLE
311	..Motor or fluid pressure control	352	NONPLANAR (E.G., THREE DIMENSION)
312	..Plural, diverse	353	WITH PLURAL FRAMES
313	..Spring	354	WITH NONRIGID FRAME OR BORDER ELEMENTS
314	...External of roll	368.1	WITH MOUNTING, FASTENING, OR SUPPORTING MEANS
315	...With winding or tensioning means	368.2	.Shiftable support for overlooking shield; e.g., pillow sham type
316	...Nested helical springs		
317	...Plural	369	.For framed type
318	...With spring anchor	370	.With guide for strand
319	..Strand	370.1	.Grain car type temporary closure
320	...With weight or handgrip	370.21	.Automobile windshield weather protector or sunshield
321	...Endless	370.22	..Roll type
322	...With compensating and shock absorbing spring	370.23	..Pleating type

371 **FRAMED TYPE**

- 372 .Adjustable frame size
 373 ..With excess or extensible fabric
 374 ..Double extensible
 374.1 ...Expandable at corner joint
 (e.g., artists's canvas
 stretcher frame)
 375 ..Shiftable edge bar section only
 376 ...With spring thrust
 377 .Collapsible or knockdown
 378 .Fabric stretching
 379 ..With intermediate reinforcing
 bars, members, or braces
 380 .Two superimposed frame elements,
 fabric clamping
 381 .With corner structure
 382 **FABRIC FASTENING MEANS**
 383 .To elongated element
 384 ..Additional things fastened
 385 ..With modified fabric
 386 ...Plural layers in panel portion
 387 ...With fabric hem
 388 ...With loops
 389 ...With strips or strands
 390 ...With fabric openings or
 pockets
 391 ..Longitudinally divided or with
 fabric receiving externally
 exposed channel or groove
 392 ...Internal fastener larger than
 groove or channel fabric exit
 393With end cap and/or sleeve
 394Sheet material elongated
 element
 395 ...Elongated fastener in channel
 or groove
 396With end cap and/or sleeve
 397Sheet material elongated
 element
 398 ...With pointed, piercing, and/or
 hook elements
 399 ...Externally applied clamp,
 clasp, sleeve, or end cap
 400 ..Sheet or strand
 401 ..By sleeve and/or end cap
 402 ..By externally applied clamp or
 clasp
 403 ..By elongated fastener
 404 ..By pointed, piercing, and/or
 hook elements
 405 **MISCELLANEOUS AND PROCESSES OF
 USING**

CROSS-REFERENCE ART COLLECTIONS

- 900 VERTICAL TYPE VENETIAN BLIND
 901 LAZY-TONG CONNECTED PLURAL
 STRIPS, SLATS, OR PANELS
 902 VENETIAN BLIND TYPE BRACKET MEANS
 903 ROLL TYPE BRACKET MEANS
 904 ELECTRIC OR PNEUMATIC AWNING
 OPERATOR
 905 LAZY-TONG-LINK AWNING OPERATOR
 906 SCREW-THREADED AWNING OPERATOR
 907 SPRING (OTHER THAN SPRING ROLLER)
 AWNING OPERATOR
 908 STRAND AWNING OPERATOR
 909 .Endless strand
 910 .Drum wound strand
 911 WORM GEAR AWNING OPERATOR
 912 RACK-AND-PINION AWNING OPERATOR
 913 GEAR AWNING OPERATOR

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS

- DIG 1 AUTO RADIATOR SCREENS
 DIG 2 AUTO SCREENS AND MISCELLANEOUS
 DIG 3 AUTO VISORS AND GLARE SHIELDS
 DIG 4 AUTO SIDE AWNINGS
 DIG 5 AWNING HEAD AND FRONT BARS
 DIG 6 BATH CURTAINS
 DIG 7 FABRIC
 DIG 8 FLEXIBLE DOOR
 DIG 9 FIREPLACE SCREEN
 DIG 10 ROLL SCREEN
 DIG 11 ROLL SCREEN IDLER ROLL
 DIG 12 OVERLAPPING, ON WINDOWS
 DIG 13 SUCTION CUP
 DIG 14 STEP JOINTS
 DIG 15 WEB-TO-TUBE FASTENERS
 DIG 16 MAGNETIC
 DIG 17 VENETIAN BLINDS, MOTOR DRIVEN
 DIG 18 ZIPPER
 DIG 19 STORM SASH